KE-DP3121B

Detetor inteligente duplo ótico/térmico endereçável com isolador da série Excellence

General

The innovative Excellence range of intelligent addressable devices offers advanced features for reliability and peace of mind. Coupled with features for ease of installation and maintenance on new fire detection systems, it's a perfect match for exceptional overall performance.

The DP3121B is a Kidde Excellence series, graphite black addressable dual optical and heat detector with integrated short circuit isolation. It combines a low profile design with tri-colour status indication with 360° visibility. A remote indicator output is available as standard that supports a remote indicator up to 30 m away.

Detection reliability is ensured by combining dual optical wavelengths with multiple detection angles. This allows for state-of-the-art particle size detection that differentiates between real sources of alarm, or nuisance sources such as dust and steam. As a temperature detector Class A static and rate-of-rise modes are supported to further widen the application footprint.

User friendly

All detectors are individually identified by easily setting an address through 2, modern design rotary switches. The address is a directly identified number and does not require binary or hexadecimal conversions that significantly reduces the risk of incorrect addressing.

Installation & maintenance friendly

Self-testing and drift compensation ensure safe operation with a contamination warnings provided when maintenance is needed.

All Excellence series detectors are compatible with a standard base which makes installation planning seamless and detectors easily interchangeable.

Communication protocol

An enhanced protocol ensures the overall integrity and error-free operation of the system. The Excellence series protocol provides features like CRC error checking and multiple bus cycle codes to ensure reliability between panel and device communication. The Kidde Excellence protocol still support legacy 2000 series devices in combination with the Kidde Excellence series devices.

Extended applications

A comprehensive range of additional devices and accessories complement every Excellence series device. Appart from a feature rich detector line, a comprehensive range of in- and outdoor manual call points as well as a variety of I/0 modules and accessories enrich the overall Excellence system capability.



Detalhes

- Isolador integrado para assegurar o funcionamento durante um único curto-circuito no loop
- Saída para sinalizador remoto com isolador incorporado
- Discriminação vapor e poeira para maior tranquilidade
- Suporte funcionamento temperatura fixa ou termovelocimétrico
- LED Tri-color para indicação de alarme, pré alarme, isolado, falha.
- A visibilidade 360° do indicador significa que não é necessário alinhar o dispositivo para garantir a visibilidade
- Novo endereçamento rotativo mecânico para um fácil endereçamento
- Registo de eventos no dispositivo para fins de diagnóstico
- Todos os níveis de sensibilidade com certificação EN54

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Especificações técnicas

General

Status indication	LED Tri-colour
Compatibility	Kidde Commercial Excellence Systems
Alarm levels	11
Event log	Disponível
Connectivity	Série Excellence, base standard
Addressing method	Rotary switch

Electrical

Power supply type	Alimentado por bucle
Operating voltage	17 a 29 VDC
Communication voltage	4 a 11 V pulsada
Current consumption	200 µA (quiescent at 24 VDC) 4.75 mA (alarme a 24 VDC)
Terminals	6

Detection

Detection principle	Dispersão ótica da luz, para a frente e para trás / Calor
Monitoring	Alarm threshold, Contamination level, Fault
Sensitivity	Selecionável
Coverage area	< 112 m² (ótico) / < 56.3 m² (térmico)
Particle sensitivity range	0.1 to 0.25 dB/m ±20%
Alarm temperature (minimum)	+54°C
Rate-of-rise	Suportado
Installation height	< 10.5 m (ótico) / < 7.5 m (térmico)
Alarm temperature (maximum)	70°C

Output

Output quantity	1
Output type and rating	Sinalizador remoto
Programmable	Não
Remote alarm output	< 8 mA

Isolation

Type	Salto de línea negativo
Quantity per loop	≤ 128
Isolation voltage	14 a 15.5 VDC
Reconnect voltage	14 a 15.5 VDC
Loop current	5 mA (isolado)
Switch current	1.05 A (continuo) / 1.4 A (impulso)
Leakage current	< 1 mA
Series resistance	< 0.08 Ω
Impedance requirements	≤ 32 dispositivos entre isoladores

Physical

Physical dimensions	100 x 54 mm (Ø x H)
Net weight	124 g
Colour	Graphite black (RAL 9011)
Mounting type	Montaje sobre base
Material (body)	PC / ABS
Functional marking	Tipo dispositivo, Isolamento
Material (contacts)	Brass
Colour	Graphite black (RAL 9011)

Environmental

Vandal proof	No
Operating temperature	-10 a +55°C
Storage temperature	-30 a +75°C
Application temperature (maximum)	+50°C
Application temperature (typical)	+25°C
Relative humidity	10 a 93% sem condensação
Environment	Drinnen
IP rating	IP20

Regulatory

Compliancy	CE, REACH, RoHS 3, WEEE
Certification	CPR
Standards	EN54-5, EN54-7, EN54-17

Produtos compatíveis

Categoria	Referência	Descrição
Detection device	KE-DB3010B	Acessório para detetor endereçável inteligente Excellence - base standard preta

KIDDE COMMERCIAL

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